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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,231	06/19/2003	Mingxi Fan	030318	9806
23696	7590	05/05/2008	EXAMINER	
QUALCOMM INCORPORATED			HYUN, SOON D	
5775 MOREHOUSE DR.				
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2616	
			NOTIFICATION DATE	DELIVERY MODE
			05/05/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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kascanla@qualcomm.com
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Office Action Summary	Application No.	Applicant(s)	
	10/600,231	FAN ET AL.	
	Examiner	Art Unit	
	SOON-DONG D. HYUN	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 February 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12, 14-24 and 35-48 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3, 12, 14, 15, 22, 24, 35-39, 46 and 48 is/are rejected.
- 7) Claim(s) 4-11, 16-21, 23, 40-45 and 47 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1-3, 12-15, 22, 24, 35-39, and 46 rejected under 35 U.S.C. 103(a) as being unpatentable over Al-Housami (US Patent No. 7,050,814).

Regarding claims 1 and 12, Al-Housami discloses a base transceiver station apparatus (a Base transceiver Station, BTS 18 in FIG. 1) comprising:

means for receiving data in a plurality of packets (data traffic, col. 2, line 41) from a plurality of access terminals (mobile users 30, 32 in FIG. 1); and

means for dynamically setting a rise-over-thermal (ROT) threshold (a loading threshold based on measures for interference level above a noise floor, col. 2, lines 23-

32, col. 3, lines 11-35) for the access terminals.

However, Al-Housami does not explicitly teach the step of increasing the ROT threshold by a predetermined increment if the outage has not occurred and the step of decreasing the ROT threshold by a predetermined decrement if the outage has occurred as recited in claim.

In the mean time, Al-Housami further teaches that the loading threshold is dynamically selected, i.e., the loading threshold is increased when data traffic users higher than voice traffic users and decreased when the voice traffic users are higher than the data traffic users to lower outages of communication (col. 3, lines 26-60).

Those of skill in the art would appreciate that the Al-Housami would check outage of communication instead of checking the traffic users to determine the loading threshold to lower outages of communication (to lower blocking or dropping of communication).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate a method of determining outage of communication into Al-Housami to determine the loading threshold dynamically, i.e. whether the loading level is increased when outage of communication is not occurred and decreased when the outage is occurred.

Regarding claims 2 and 14, Al-Housami does not teach a reverse activity bit (RAB) as recited in claims, but the RAB is known in the art to control mobile terminals. Therefore, it would have been obvious to one having ordinary skill in the art to use the RAB if the outage has occurred.

Regarding claims 3 and 15, Al-Housami does not teach initially setting loading threshold to a predetermined minimum threshold. But it is known in the art the threshold has a range between a minimum value and a maximum value.

Therefore, it would have been obvious to one having ordinary skill in the art to initially set the loading threshold to a predetermined minimum value such that the threshold has flexibility.

Regarding claim 22, it would have been obvious to one having ordinary skill in the art to determine whether the outage has occurred based on more than one terminals to get more reliable statistics for the outage.

Regarding claim 24, refer to the discussion for claim 1.

However, Al-Housami does not explicitly teach that computer readable medium is executing the method.

It would have been obvious to one having ordinary skill in the art to incorporate computer readable medium (software) for the method to take advantage of using the software (programmable).

Regarding claims 35, 36, 48, refer to the discussion for claims 1, 12, 24, but Al-Housami does not explicitly teach a detail structure of the BTS. It is inherent that the BTS has a processor for executing the software, at least one antenna and an input and inputs and outputs coupled to each other as recited in claim to implement the method.

Regarding claims 37 and 46, refer to the discussion for claims 1, 12, 13, and 24.

It would have been obvious to one having ordinary skill in the art to determine whether the outage has occurred on more than one terminals to get more reliable statistics for the outage.

Regarding claim 38, refer to the discussion for claims 1, 2, 12, and 24.

Regarding claim 39, refer to the discussion for claims 1, 3, 12, and 24.

Allowable Subject Matter

3. Claims 4-11, 16-21, 23, 40-45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments filed 2/6/2008 have been fully considered but they are not persuasive.

Regarding claim 1, Applicant argues (the Remarks page 10, lines 15-19 that Al-Housami does not teach increasing or decreasing the ROT threshold based on the outage as recited in claim. Examiner agrees, but as discussed in claim rejection above, those of skill in the art would appreciate that the Al-Housami would check outage of communication instead of checking the traffic users to determine the loading threshold to lower outages of communication (to lower blocking or dropping of communication).

Therefore, it would have been obvious to one having ordinary skill in the art to incorporate a method of determining outage of communication into Al-Housami to

determine the loading threshold dynamically, i.e. whether the loading level is increased when outage of communication is not occurred and decreased when outage is occurred.

Applicant further argues (the Remarks page 10 lines 22-24) that the outage is interpreted in light of the specification: “the present specification states that an outage is declared for an access when the access terminal transmitting at the lowest data rate, experiences two frame errors over two consecutive packets”.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the lowest data rate and the two frame errors) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

For the reasons as discussed above, Examiner believes that the claim rejection is proper.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SOON-DONG D. HYUN whose telephone number is (571)272-3121. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chi H Pham/
Supervisory Patent Examiner, Art
Unit 2616
4/25/08

/Soon D Hyun/
Examiner, Art Unit 2616

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